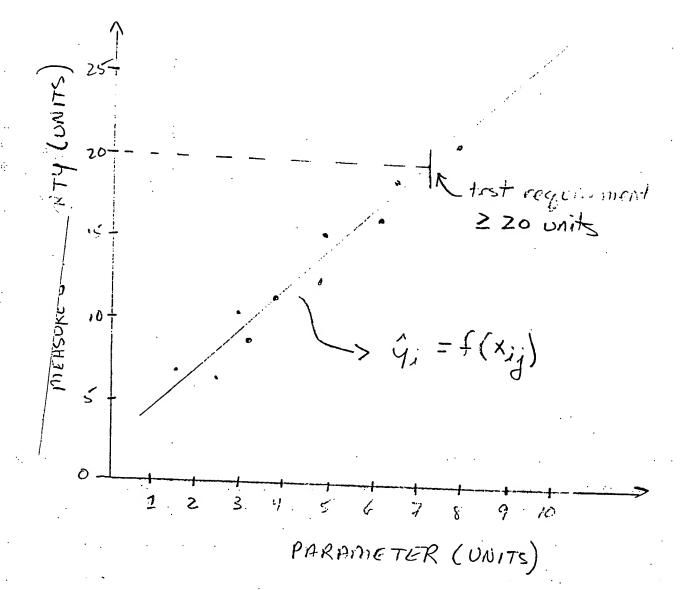


IDENTIFICATION OF A CULTURE MEDIUM COMPONENT BASED ON PARAMETERS OF MEDIUM COMPONENTS MEASURE FIRST INDICIA OF A PROPERTY OF A FIRST PLURALITY OF CULTURE MEDIA WHICH EACH CONTAINS A FIRST TEST COMPOUND CHOSEN FROM A FIRST TEST LIBRARY BASED ON A SPACE-FILLING TECHNIQUE DETERMINE A RELATIONSHIP BETWEEN AT LEAST ONE -104 PARAMETER OF THE FIRST TEST COMPOUNDS AND THE MEASURED INDICIA OF THE PROPERTY, WHERE THE RELATIONSHIP IS REPRESENTED BY $\hat{y}_i = f(x_i)$, WHERE x_i DENOTES A PARAMETER, I RANGES FROM 1 TO n WHERE n REPRESENTS THE NUMBER OF FIRST CULTURE MEDIA IN THE PLURALITY THEREOF, J RANGES FROM 1 TO d WHERE d REPRESENTS THE NUMBER OF PARAMETERS, AND ŷREPRESENTS AN ESTIMATE OF THE MEASURED FIRST INDICIA OF THE PROPERTY OF THE PLURALITY OF FIRST CULTURE MEDIA

DETERMINE A TEST REQUIREMENT RELATING TO THE MEASURED FIRST INDICIA

BASED ON THE RELATIONSHIP BETWEEN THE MEASURED FIRST INDICIA AND AT LEAST ONE PARAMETER OF THE FIRST TEST COMPOUNDS, IDENTIFY A SECOND TEST LIBRARY CONTAINING A PLURALITY OF SECOND TEST COMPOUNDS AS COMPONENTS OF A PLURALITY OF SECOND CULTURE MEDIA WHICH ARE EACH PREDICTED TO PROVIDE INDICIA OF THE PROPERTY THAT SATISFIES THE TEST REQUIREMENT

FIG. 1



F16. Z





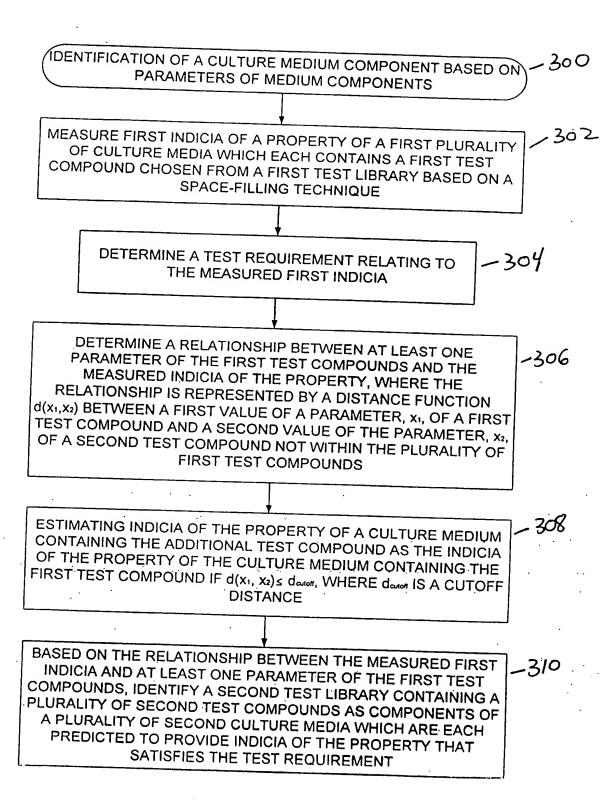
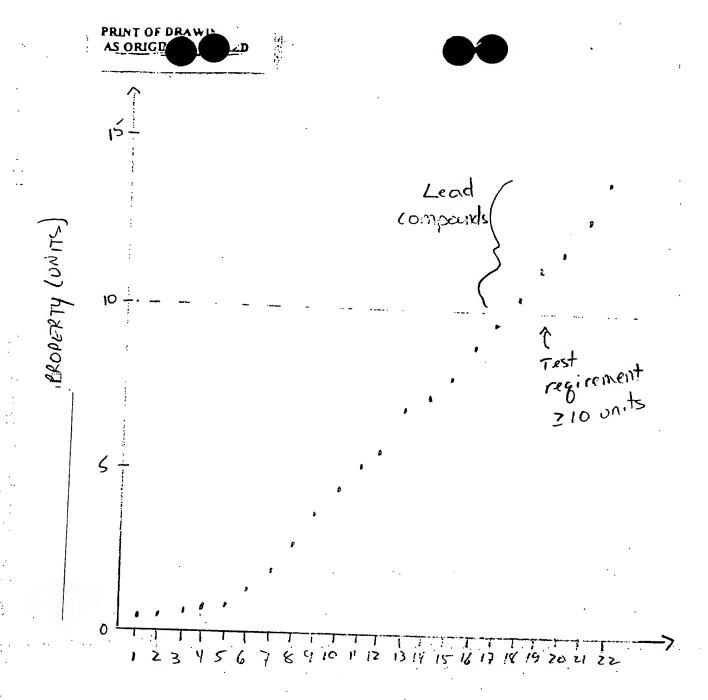
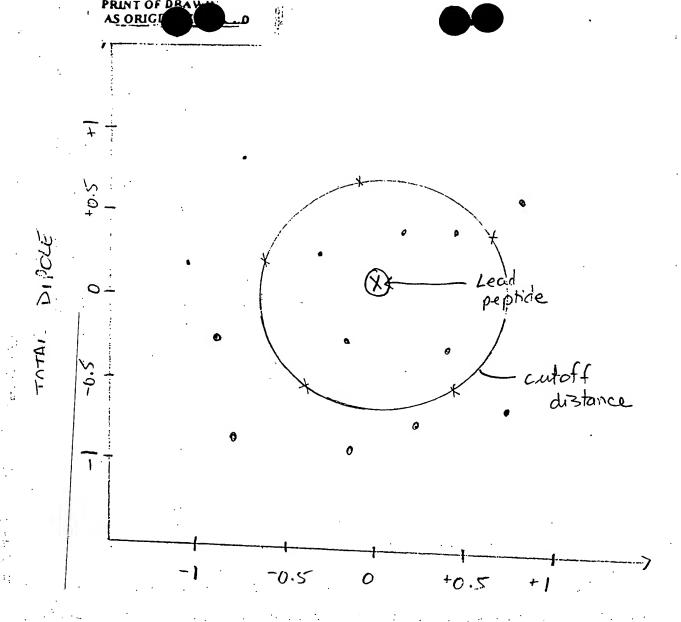


FIG. 3



COMPOUNDS

F16 4A



HYDROPHOBICITY

F16. 4B

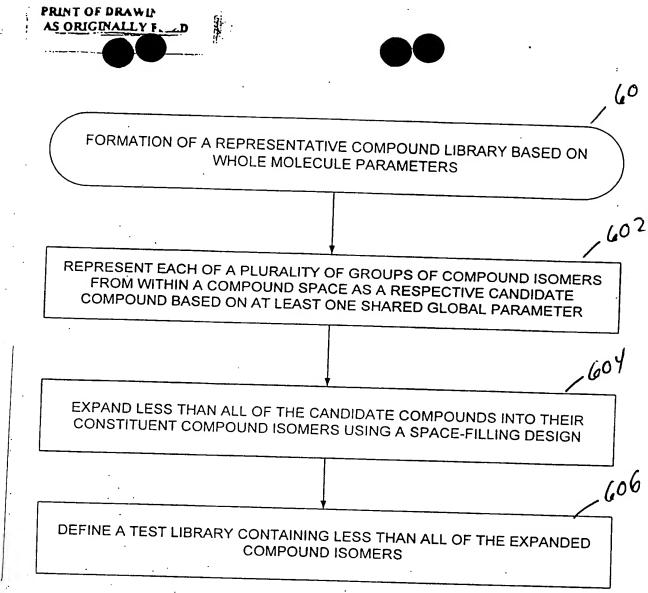


FIG. 6



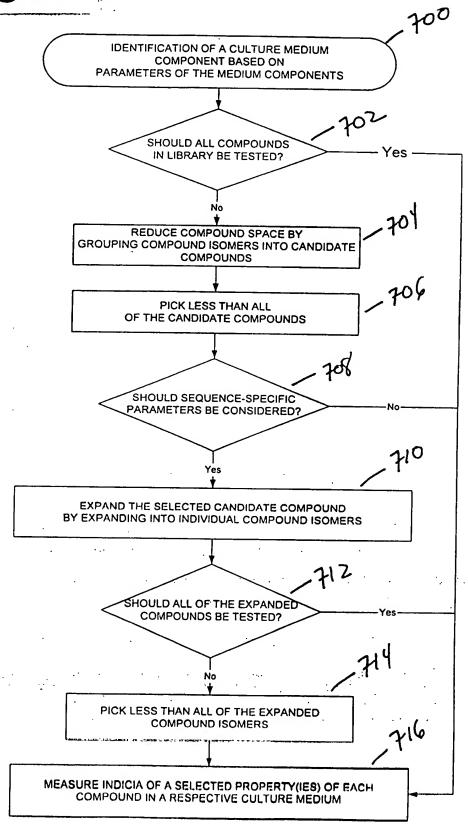


FIG. 7





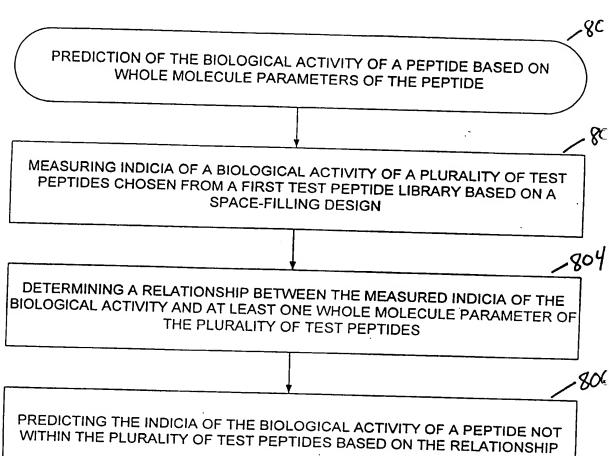


FIG. 8